

MiniBooNE Report

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For the MiniBooNE Collaboration

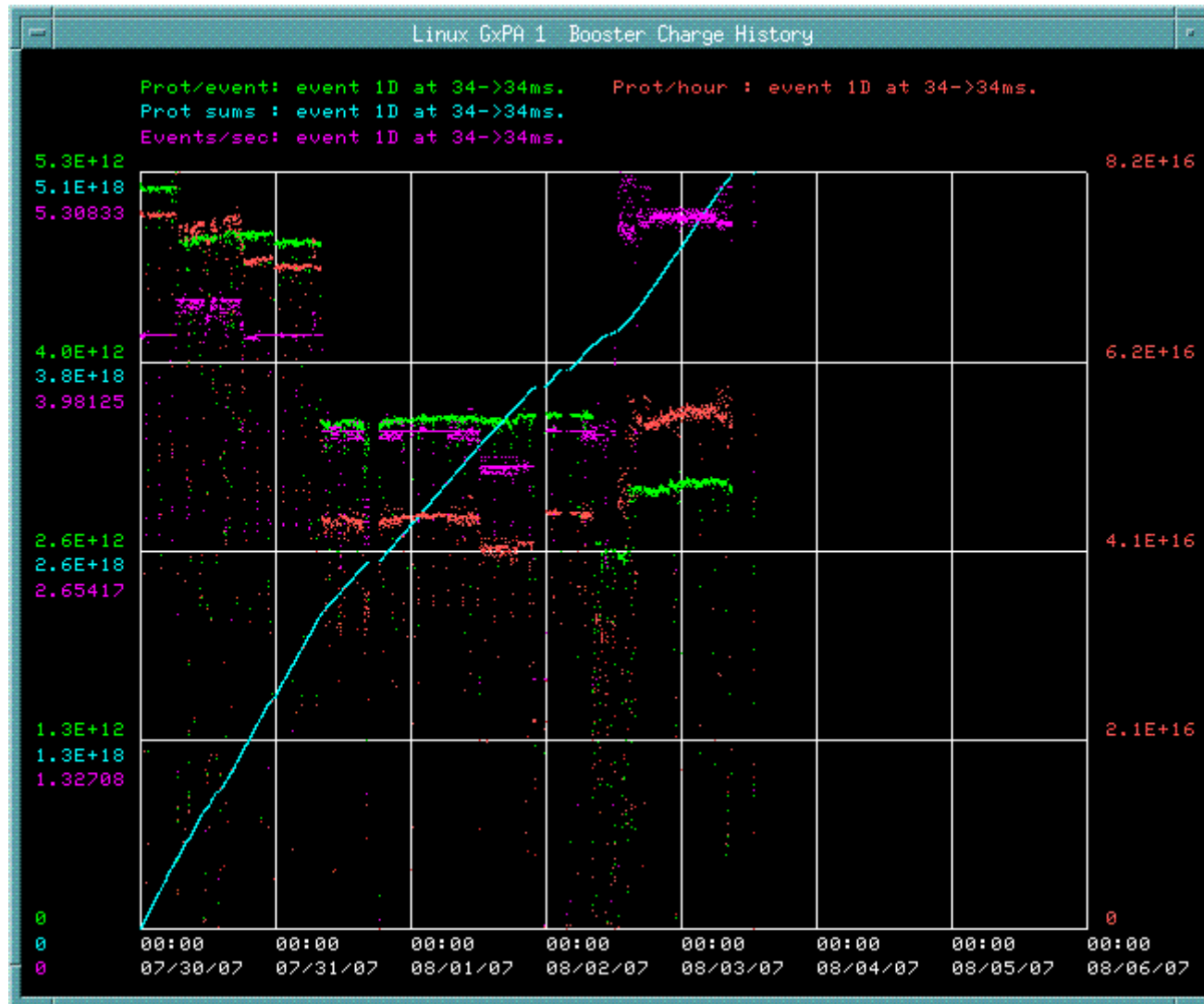
6 August 2007

Last Week (30 July to 5 Aug)

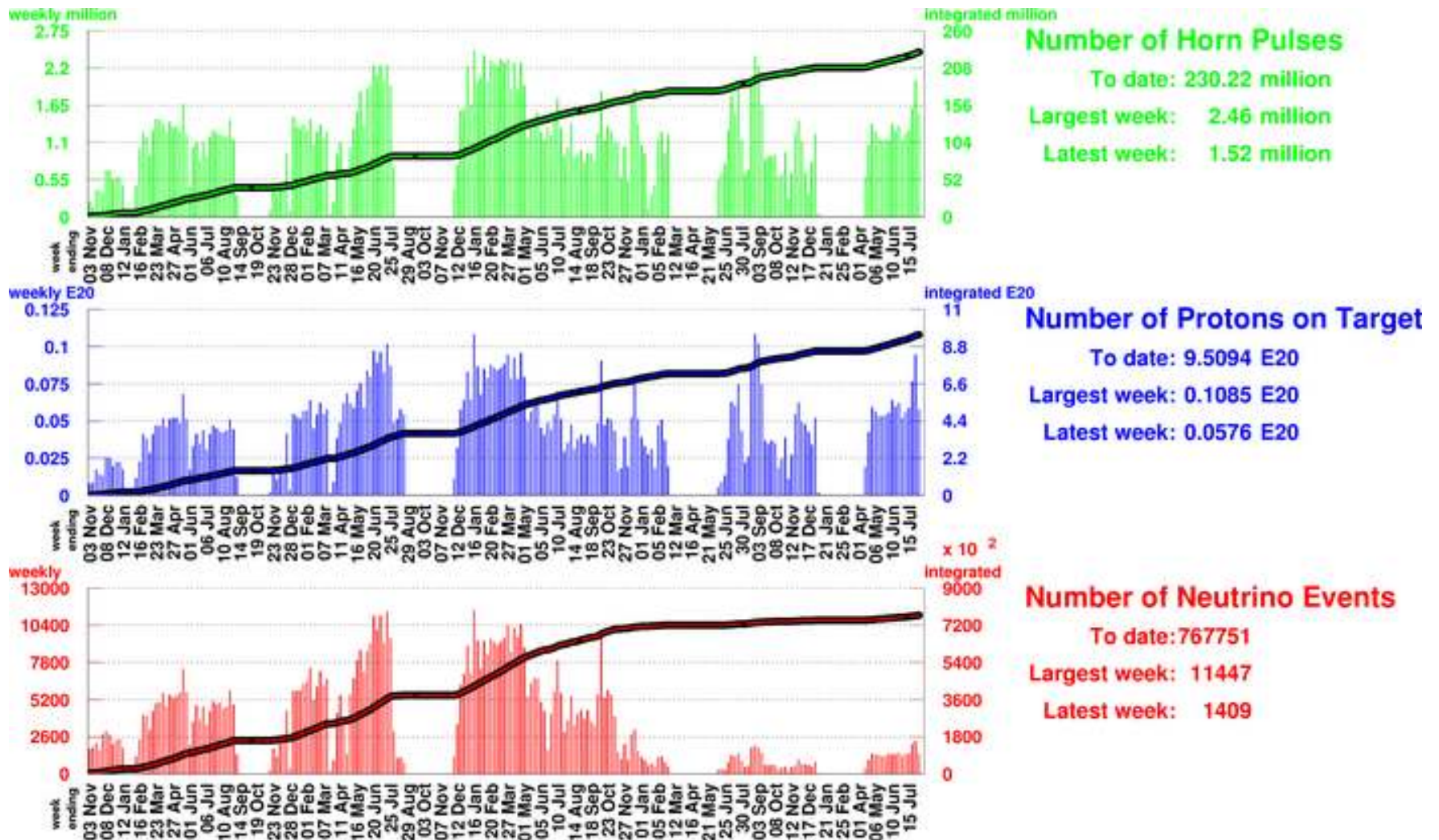
5.8E18 POT, 62% uptime

- Vacuum leak in Booster on Friday Evening caused early start to shutdown
- No significant downtime prior to that
- Spill rate and POT per spill reduced early in week for cooldown
- Increased beam later in week due to high rep rate tests of Booster

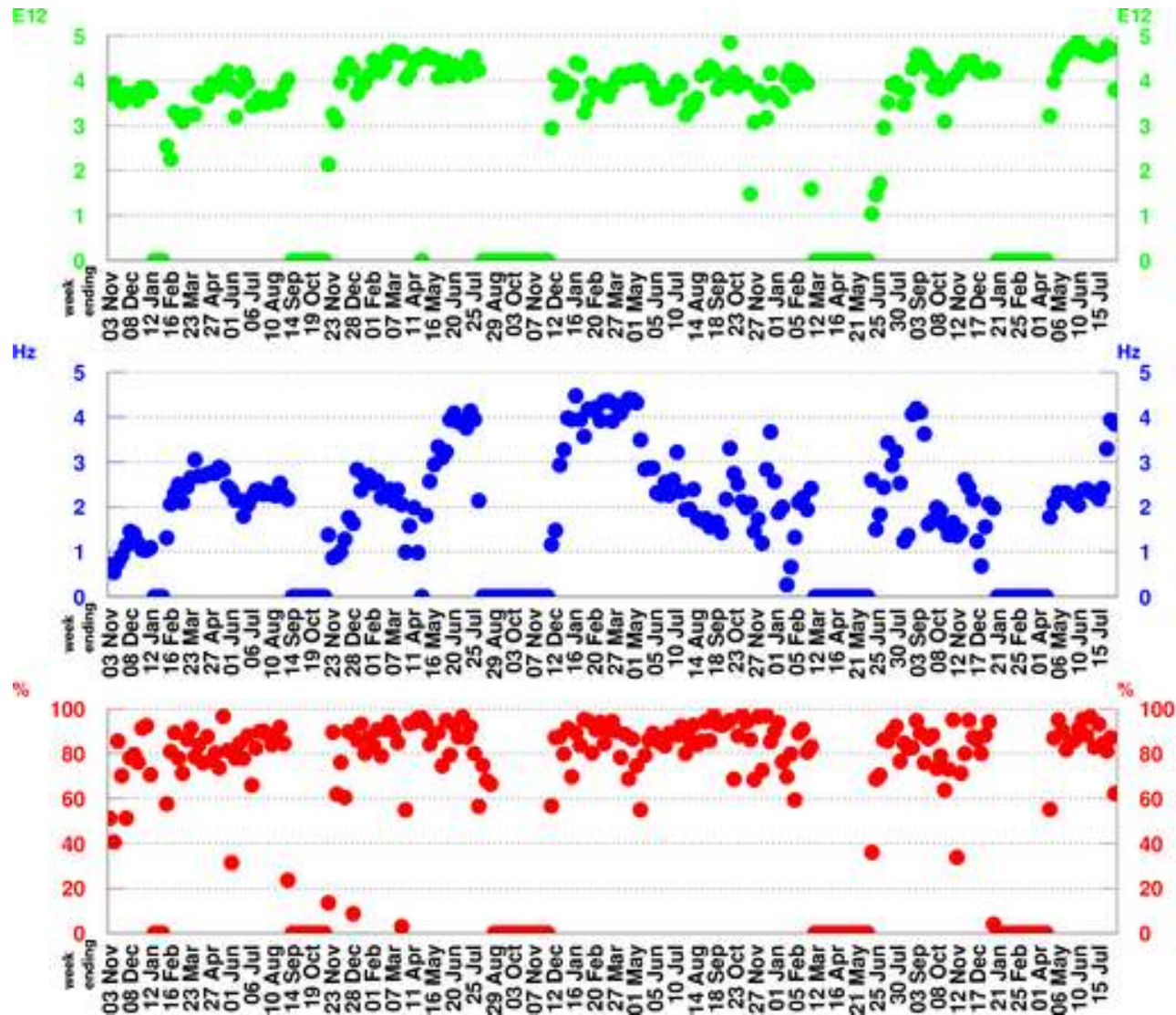
Week in Detail



30 July to 5 Aug 2007



30 July to 5 Aug 2007



POT per Horn Pulse

Largest week: 4.89 $E12$

Latest week: 3.79 $E12$

Horn Rate

(for time periods with beam)

Largest week: 4.48 Hz

Latest week: 3.85 Hz

Beam Uptime Fraction

(fraction of time with beam)

Largest week: 97.4 %

Latest week: 62.3 %

Run Summary

- Very successful running on FY07
- $2.4E20$ POT delivered in anti-neutrino mode
 - Exceeded goal of $2E20$ even with derating for absorber problem
 - Many thanks to AD for such great beam delivery and such a rapid fix to the absorber

Shutdown Plans

- Switch horn polarity (to neutrino mode) for SciBooNE
- Check corrosion coupons in 25m absorber
- Some minor electronics fixes
- Upgrade of DAQ computers to SL4/5 OS
- Detector will run in supernova mode throughout the shutdown

Future

- Several cross-section and oscillation papers are being worked on
 - Expect a steady stream of MiniBooNE papers over the next couple of years
- MiniBooNE is currently investigating how many POT would be needed for a ν_e -bar appearance measurement
 - Goal: similar sensitivity as the ν_e result
- If POT needed is not too large MiniBooNE may ask for further running at the Fall PAC meeting